



SIMATIC DP, 5 electronic modules ET 200S: 4 DI 24 V...48 V UI, 15 mm width, with SF LED (group fault) 5 units per packing unit

Supply voltage	
Reverse polarity protection	Yes; AC or DC automatic
Input current	
from supply voltage L+, max.	Dependent on encoder
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
Type of output voltage	min. L+ (-0.5 V), under load
Short-circuit protection	Yes; per module
Output current	
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	500 mA
<ul style="list-style-type: none"> <li>permissible range, lower limit</li> </ul>	0 mA
<ul style="list-style-type: none"> <li>permissible range, upper limit</li> </ul>	500 mA
Power loss	
Power loss, typ.	0.7 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>Address space per module, max.</li> </ul>	1 byte
<ul style="list-style-type: none"> <li>with packing</li> </ul>	4 bit
Digital inputs	
Number of digital inputs	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> <li>Type of input voltage</li> </ul>	AC/DC
<ul style="list-style-type: none"> <li>Rated value (UC)</li> </ul>	24 V; 24 ... 48 V UC (47 ... 63 Hz)
<ul style="list-style-type: none"> <li>for signal "0"</li> </ul>	-6 to +6 V DC/ 0 to 5 V AC
<ul style="list-style-type: none"> <li>for signal "1"</li> </ul>	-15 V DC to -57.6 V DC; 15 V DC to 57.6 V DC; 15 V AC to 48 V AC
Input current	
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	10 mA; 4 to 10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> <li>at "0" to "1", max.</li> </ul>	15 ms
<ul style="list-style-type: none"> <li>at "1" to "0", max.</li> </ul>	15 ms
Encoder connection	
<ul style="list-style-type: none"> <li>Fixed current limitation for wire-break monitoring, min.</li> </ul>	18 kΩ; Rated voltage 24 V (15 V to 35 V); rated voltage 48 V (30 V to 60 V); 39 kohms
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	1 000 m
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	600 m

Encoder	
Connectable encoders	
<ul style="list-style-type: none"> <li>• 2-wire sensor <ul style="list-style-type: none"> <li>— permissible quiescent current (2-wire sensor), max.</li> </ul> </li> </ul>	<p>Yes</p> <p>2 mA; (0.5 to 2 mA), a minimum load current is necessary for wire break diagnostics.</p>
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Diagnoses	
<ul style="list-style-type: none"> <li>• Wire-break</li> </ul>	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>• Group error SF (red)</li> <li>• Status indicator digital input (green)</li> </ul>	<p>Yes</p> <p>Yes; per channel</p>
Potential separation	
Potential separation digital inputs	
<ul style="list-style-type: none"> <li>• between the channels</li> <li>• between the channels and backplane bus</li> </ul>	<p>No</p> <p>Yes</p>
Isolation	
Isolation tested with	2 500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	35 g
<b>last modified:</b>	1/16/2021 